

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Eisenzopf, Reinhard Examiner #: 5978 Date: 2/5
 Art. Unit: 2600 Phone Number 305-4711 Serial Number: 101054245
 Mail Box and Bldg/Room Location: PK2 8A37 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

US 6,041,109

STAFF USE ONLY
 Searcher: KEJ
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 Date Searcher Picked Up: 2/5
 Date Completed: 2/5
 Searcher Prep & Review Time: _____
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Type of Search	Vendors and cost where applicable
NA Sequence (#)	STN _____
AA Sequence (#)	Dialog _____
Structure (#)	Questel/Orbit _____
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Fulltext	Sequence Systems _____
Patent Family	WWW/Internet _____
Other	Other (specify) _____

Query/Command : prt max legalall

/1 PLUSPAT - ©QUESTEL-ORBIT - image

N - **US6041109** A 20000321 [**US6041109**]
I - (A) Telecommunications system having separate switch intelligence and switch fabric
A - (A) MCI COMMUNICATIONS CORP (US)
N - (A) RAMBO KEN (US); WALLER CAROL (US); CARDY DOUGLAS ROSS (US)
P - US58071295 19951229 [1995US-0580712]
R - US58071295 19951229 [1995US-0580712]
C - (A) H04M-003/00 H04M-007/00
C - H04Q-003/00D3
H04Q-003/545M1
CL - ORIGINAL (O) : 379201010; CROSS-REFERENCE (X) : 379219000 379221010 379243000
T - Corresponding document
T - US4201891; US4821034; US4872157; US4893302; US5272749; US5327486; US5329520; US5418844;
US5530852; US5583920; US5608446; US5610976; US5619557; US5619562; US5661782; US5712908;
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3/4, 1991, Short Hills, USA, pp. 99-110.

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vol. 29, No. 1, Jan. 1991, New York, USA, pp. 60-68.

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No. 2, Sep. 30, 1988, Chicago, USA, pp. 1312-1320.
TG - (A) United States patent
B - The present invention is a telecommunications system having separate switch fabric and switch intelligence.
The system comprises a switch fabric, a switch intelligence, and a feature processor. The switch intelligence
logically separated from the switch fabric and comprises a switch fabric proxy, a facility service, a connectio
manager service, and a call segment instance service. The switch fabric proxy is coupled to the switch fabric
via a vendor-specific first Application Programming Interface (API). The switch fabric proxy supports a
second API, which is common across all vendors, representing functions supported by the switch fabric. A
facility instance, which is instantiated by a facility service using a facility model, represents the bearer and
signaling facilities of a party to a call, and interacts with the switch fabric proxy via the second API to
communicate with the switch fabric. The connection manager service represents the connectors for a party to
call, and interacts with the switch fabric proxy via the second API to communicate with the switch fabric. A
call segment instance, which is instantiated by a call segment instance service using a call model, represents
the call logic and call data for a party to a call, and interacts with the connection manager service via a third
API and with the facility instance via a fourth API. The feature processor interacts with the call segment
instance via a fifth API to provide the telecommunications feature.
P - 2000-13

/1 LGST - ©LEGSTAT

P - US 580712/95 19951229 [1995US-0580712]

T - US-P

CT - 19951229 US/AE-A
APPLICATION DATA (PATENT)
US 580712/95 19951229 [1995US-0580712]

20000321 US/A
PATENT

20020604 US/RF
REISSUE APPLICATION FILED
20020124

P - 2002-24

/1 CRXX - ©CLAIMS/RRX

N - 6,041,109 A 20000321 [US6041109]

A - MCI Communications Corp

CT - 20020124 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020604
REISSUE REQUEST NUMBER: 10/054245
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2748

Reissue Patent Number:

/1 PAST - ©Thomson Derwent

N - 200223-001842

N - 6041109 A [US6041109]

G - 2002-06-04

CT - REISSUE APPLICATION FILED

<=1> GET 1st DRAWING SHEET OF 5

March 21, 2000

Telecommunications system having separate switch
intelligence and switch fabricREISSUE: January 24, 2002 - Reissue Application filed Ex. Gp.: 2748; Re. S.N.
10/054,245 (O.G. June 4, 2002)

APPL-NO: 580712 (08)

FILED-DATE: December 29, 1995

GRANTED-DATE: March 21, 2000

CORE TERMS: switch, fabric, segment, interface, processing, intelligence,
manager, bearer, network, connector ...

ENGLISH-ABST:

The present invention is a telecommunications system having separate switch fabric and switch intelligence. The system comprises a switch fabric, a switch intelligence, and a feature processor. The switch intelligence is logically separated from the switch fabric and comprises a switch fabric proxy, a facility service, a connection manager service, and a call segment instance service. The switch fabric proxy is coupled to the switch fabric via a vendor-specific first Application Programming Interface (API). The switch fabric proxy supports a second API, which is common across all vendors, representing functions supported by the switch fabric. A facility instance, which is instantiated by a facility service using a facility model, represents the bearer and signaling facilities of a party to a call, and interacts with the switch fabric proxy via the second API to communicate with the switch fabric. The connection manager service represents the connectors for a party to a call, and interacts with the switch fabric proxy via the second API to communicate with the switch fabric. A call

fabric proxy via the second API to communicate with the switch fabric. A call segment instance, which is instantiated by a call segment instance service using a call model, represents the call logic and call data for a party to a call, and interacts with the connection manager service via a third API and with the facility instance via a fourth API. The feature processor interacts with the call segment instance via a fifth API to provide the telecommunications feature.

LEXIS-NEXIS
Library: **PATENT**
File: **ALL**

6,041,109 OR 6041109

LEXIS-NEXIS
Library: PATENT
File: CASES

Your search request has found no CASES.

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6,041,109 OR 6041109

LEXIS-NEXIS
Library: PATENT
File: JNLS

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6,041,109 OR 6041109

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? t 2/39/1

2/39/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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Basic Patent (No,Kind,Date): WO 9724885 A1 19970710 <No. of Patents: 002>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
US 6041109	A	20000321	US 580712	A	19951229
WO 9724885	A1	19970710	WO 96US20142	A	19961230 (BASIC)

Priority Data (No,Kind,Date):

US 580712 A 19951229

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 6041109 A 20000321

TELECOMMUNICATIONS SYSTEM HAVING SEPARATE SWITCH INTELLIGENCE AND
SWITCH FABRIC (English)

Patent Assignee: MCI COMMUNICATIONS CORP (US)

Author (Inventor): CARDY DOUGLAS ROSS (US); RAMBO KEN (US); WALLER
CAROL (US)

Priority (No,Kind,Date): US 580712 A 19951229

Applic (No,Kind,Date): US 580712 A 19951229

National Class: * 379201000; 379219000; 379220000; 379243000

IPC: * H04M-007/00; H04M-003/00

Derwent WPI Acc No: * G 97-364043

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 6041109	P	19951229	US AE	APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))
			US 580712	A 19951229

US 6041109	P	20000321	US A	PATENT
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US 6041109	P	20020604	US RF	REISSUE APPLICATION FILED
				(REISSUE APPL. FILED)
				20020124

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9724885 A1 19970710

A TELECOMMUNICATIONS SYSTEM HAVING SEPARATE SWITCH INTELLIGENCE AND
SWITCH FABRIC (English)

Patent Assignee: MCI COMMUNICATIONS CORP (US)

Author (Inventor): CARDY DOUGLAS ROSS; RAMBO KEN; WALLER CAROL

Priority (No,Kind,Date): US 580712 A 19951229

Applic (No,Kind,Date): WO 96US20142 A 19961230

Designated States: (National) CA; JP; MX (Regional) AT; BE; CH; DE;
DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

Filing Details: WO 130000 With international search report; Before
expiration of time limit for amending the claims and to be
republished in the event of the receipt of the amendments

IPC: * H04Q-003/00; H04Q-003/545

Derwent WPI Acc No: * G 97-364043; G 97-364043

Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9724885 P 19951229 WO AA PRIORITY (PATENT)
US 580712 A 19951229

WO 9724885 P 19961230 WO AE APPLICATION DATA (APPL.
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WO 96US20142 A 19961230

WO 9724885 P 19970710 WO AK DESIGNATED STATES CITED IN A
PUBLISHED APPLICATION WITH SEARCH REPORT
(DESIGNATED STATES CITED IN A PUBLISHED APPL.
WITH SEARCH REPORT)
CA JP MX

WO 9724885 P 19970710 WO AL DESIGNATED COUNTRIES FOR
REGIONAL PATENTS CITED IN A PUBLISHED
APPLICATION WITH SEARCH REPORT (DESIGNATED
COUNTRIES FOR REGIONAL PATENTS CITED IN A
PUBLISHED APPL. WITH SEARCH REPORT)
AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL
PT SE

WO 9724885 P 19970710 WO A1 PUBLICATION OF THE
INTERNATIONAL APPLICATION WITH THE
INTERNATIONAL SEARCH REPORT (PUB. OF THE
INTERNATIONAL APPL. WITH THE INTERNATIONAL
SEARCH REPORT)

WO 9724885 P 19970904 WO DFPE REQUEST FOR PRELIMINARY
EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH
MONTH FROM PRIORITY DATE

WO 9724885 P 19971001 WO 121 EP: PCT APP. ART. 158 (1)
(EP: PCT ANM. ART. 158 (1))

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PHASE IN:
JP 97524390

WO 9724885 P 19990421 WO 122 EP: PCT APP. NOT ENT. EUROP.
PHASE (EP: PCT ANM. NICHT IN EUROP. PHASE
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